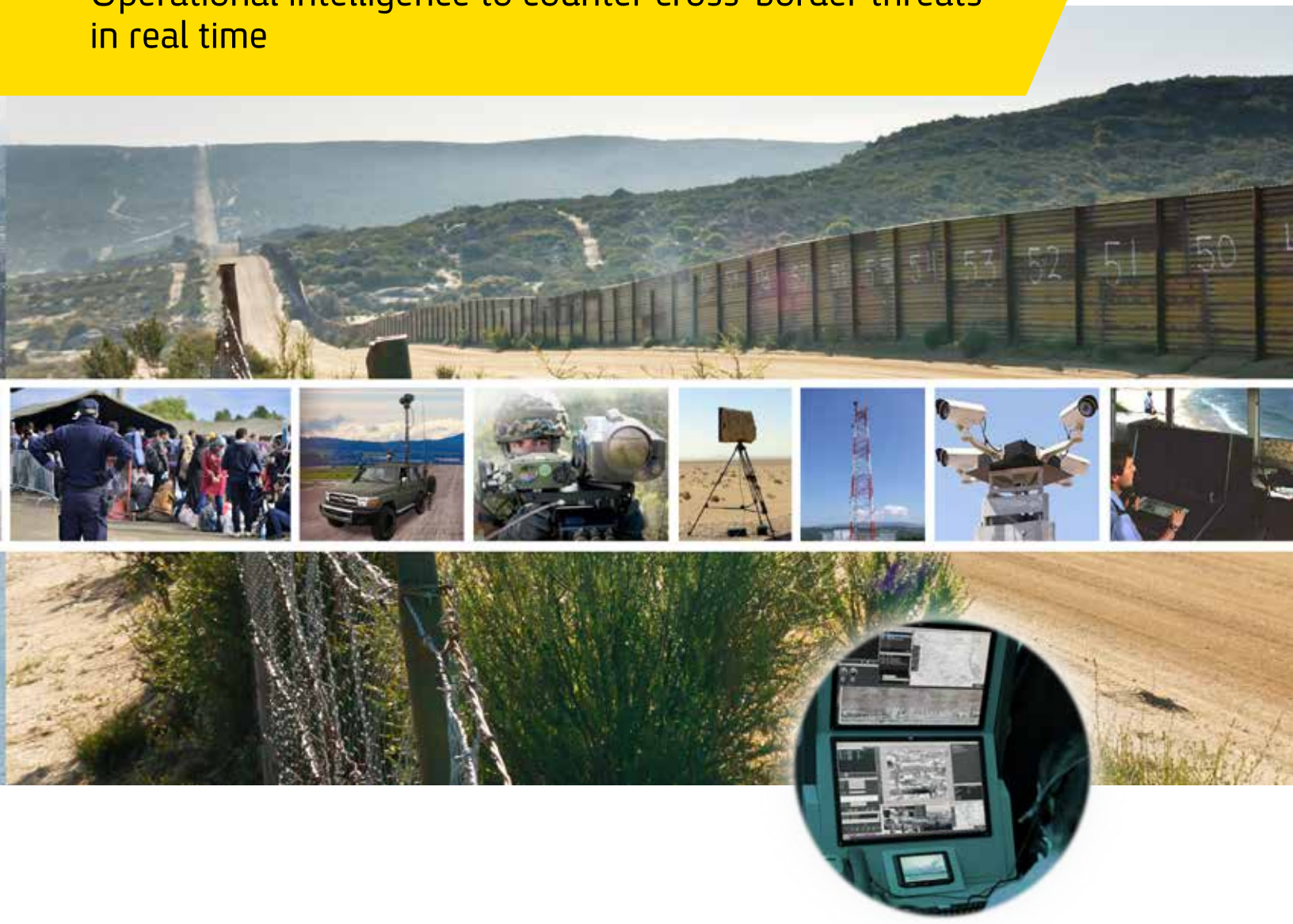
Advanced Border Security Solution

Operational intelligence to counter cross-border threats in real time



Elbit Systems™
C4I and Cyber

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The rise of terrorist threats, criminal activity and illegal immigration demand a comprehensive and durable border protection solution. Elbit Systems' Advanced Border Security Solution facilitates continuous and superior coverage of terrestrial borders, air-space and jurisdictional waters. The solution incorporates a cutting-edge C⁴ISR system that creates synergies between sensor arrays, ground and mobile forces, aerial assets and big data analytics. As a force multiplier, the solution provides marketing leading decision support tools and technologies that deliver the operational intelligence to counter cross border threats in real time. The fully operational and field-proven solution was developed with the expertise gained by protecting some of the most complex cross-border threats around the world.

Comprehensive detection and identification of border-related threats - The Advanced Border Security Solution touches on all aspects of border protection. It encompasses the border crossings and systems that manage them, the physical barriers along the border and the national level command and control that bears overall responsibility for national border protection.

Field-proven operational experience - Elbit Systems is a world leader in border defense and control management systems, with solutions deployed and fully operational in Israel, Europe, the United States and other locations with challenging borders. The company's renowned Digital Army Project (DAP) is derived from operational know-how gained from years of experience operating in some of the most complex environments around the world.

In-house development for a customized and modular approach - For more than 40 years, Elbit Systems has been a prime supplier and integrator of a broad range of field-proven turnkey solutions. Its multi-disciplinary, in-house development of solution components, such as electro-optics sectors, UAS, unmanned ground vehicles, C⁴I solutions, radar, unattended ground sensors and communications systems, allows for complete solution customization according to customer requirements as well as seamless integration with third-party solutions.

Operational Levels

- National Level - Full-scale C⁴I capabilities, inter-agency coordination and border crossing management
- Theater of Operations Level - Creates a unified intelligence and knowledge base, manages cross regional events, and links the national level to the various regions
- Regional Level - Day-to-day border protection operations

Building Blocks

- **The National Border Protection C⁴I Center** - As the hub of all border protection operations, The National Border Protection C⁴I Center houses all hardware and software applications, and facilitates robust voice, video and data communications between the regional and theater level C⁴I centers, C² applications and big data analytics tools.

- **Border Crossing Management System (BCMS)** - The highly flexible, dynamic and scalable BCMS integrates advanced border control management capabilities with sophisticated intelligence and research tools. The solution expedites the flow of passengers, vehicles and cargo from national airports, seaports and land borders – while maintaining full border security and control.

- **Cyber Security** - The national level control center hosts and manages the border protection system's cyber security measures. These measures monitor the network in real time to ensure that the databases are secure from both external and internal threats. They also monitor all communications to ensure the security of the information transferred between the command levels and ground forces.

- **Advanced Sensors** - Threats are detected in real time via a range of fixed, airborne and mobile sensors. These sensors may be airborne (UAS and mission aircraft), installed on observation towers and other fixed positions, unattended with autonomous power sources (seismic and acoustic UGS), hand carried by deployed forces or vehicle-borne. These advanced sensors provide automatic detection of cross-border human activity, intruders and abnormal incidents, allowing the defense agencies to achieve rapid sensor-to-responder closure.

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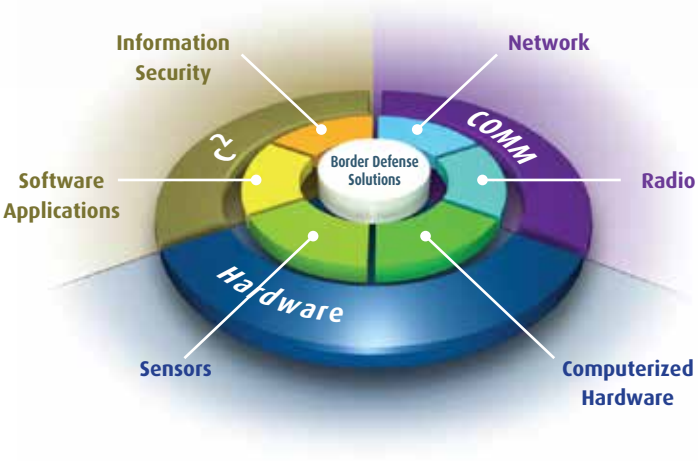
Operational Benefits

- Monitors and controls national territory regions (terrestrial borders, air-space and jurisdictional waters)
- Observes and traces hostile activity within ground, naval and aerial border-zones
- Collects, processes, analyzes and disseminates up-to-date and accurate intelligence and operational data
- Establishes common situational awareness and complete interoperability among the entire border defense array
- Provides early warning and threat assessment during routine activities, ISR operations and crisis situations

- Coordinates joint operations in support of frontier events
- Provides coordination with national and civil systems and services



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